GODIAG GT100–Overview

1. Statement

Please read the following statement carefully:

GODIAG GT100Overview will help you quickly master how to use GT100 equipment. Please abide by national laws and do not use it for illegal purposes.

GODIAG GT100Overview is written by GODIAG, please do not use it for any commercial purposes without authorization.

The following column is GODIAG GT100-an overview of product functions and usage:

- GT100 – OBDII Protocol Detector
- GT100 – ECU connection
- GT100 – Compatible with lots of devices
- GT100 – Convert OBD1 diagnostic interface to the standard OBD2 diagnostic
- GT100 –Multi-ECU connection mode
- GT100 –The cable can be extended.
- GT100 – Power the car when changing the battery
- GT100 –Optional dedicated adapter

Please abide by national laws. we are not responsible for any illegal usage of GODIAG equipment.

Thank you for choosing GODIAG GT100!

2. Safety precautions

To avoid personal injury, vehicle / equipment damage, please read this manual first. There are some safety precautions should be followed when working on the vehicle:

1) Always work in a safe environment

2) Wear the goggles that comply with ANSI standards.

3) Ensure that clothes, hairs, hands, tools and equipment are kept away from the running engine parts or the hot engine parts.

4) Ensure that the working area is well-ventilated because the vehicle exhaust is toxic.

5) Place bricks in front of all wheels to prevent accidental movement of the vehicle.

6) During testing and working, someone must supervise the vehicle.

7). Be extremely careful when working near the ignition coil, distributor cap, ignition wire, spark plug, these components will generate dangerous voltage.

8) Shift to P gear (for an automatic transmission car) or N gear (for a manual transmission car), and ensure that the parking brake is in the active state (pull up the handbrake).

9) Make sure there is a fire extinguisher suitable for gasoline/chemical/electrical nearby.

10) Do not plug or unplug the device when the ignition is turned on or the engine is working.

11) Keep the equipment dry and clean, and avoid contact with oil, water or grease. Please clean the equipment with a clean cloth and gentle detergent.

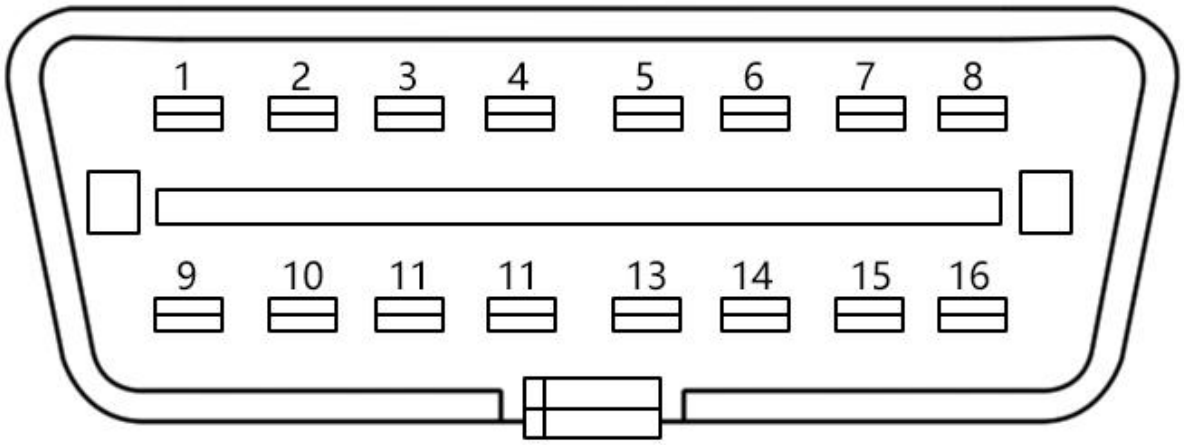
3. Parameter

Content	Specification
Diagnostic port	OBDII
Working voltage	DC 9V-24V
Work and power	0.5-0.6W
Adapter power	Input AC100v-240v, Output DC12V 1A
Operating temperature range	-20 to 70 °C (-4 to 158 °F)
Storage temperature range	-40 to 85 °C (-40 to 185 °F)
Dimension	L: 23cm, W:18cm, H:7cm

4. Godiag GT100 function and operation guide

- By connecting the vehicle and diagnostic tool via OBDII, Godiag GT100's LED will indicate whether the OBDII diagnostic interface has a good communication with the car.

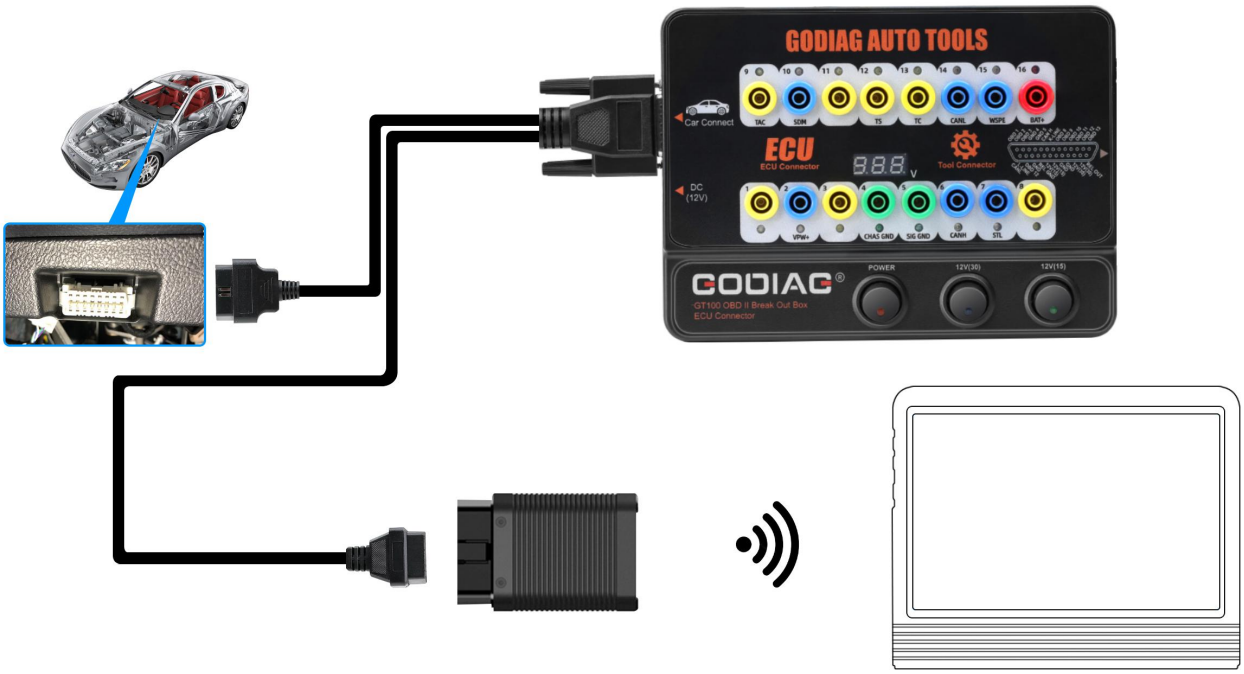
- Monitor the voltage of vehicle OBDII interface and display it in real time. If it is less than 11V, please stop the diagnosis and programming to avoid the vehicle being unable to start/data loss/module locked.



Indicator Meaning:

1. Manufacturer custom	9. Manufacturer custom
2. SJE1850 wire<bus+>	10. SJE1850 wire《bus->
3. Manufacturer custom	11. Manufacturer custom
4. Power grounding	12. Manufacturer custom
5. Signal grounding	13. Manufacturer custom
6. SAEJ2284《CAN》high	14. SAEJ2284《CAN》low
7. ISO9141-2&iso, DIS4230-4K wire	15. ISO9141-2 & ISO/DIS 4230-4L wire
8. Manufacturer custom	16. Car battery positive

1. OBDII Protocol Detector & communication detection



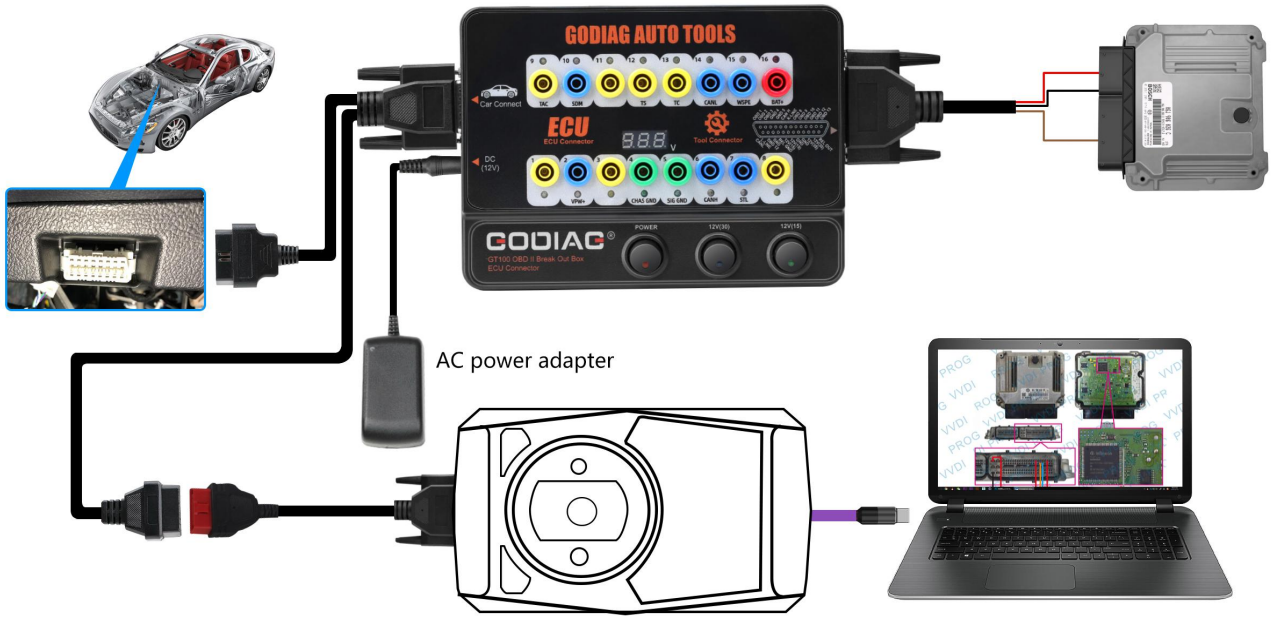
1). Connect GODIAG GT100 to the OBDII diagnostic port of the car.

2). When the device displays the voltage, turn on the power switch of GODIAG GT100.

3). Then connect to the diagnostic tool, when the tool is communicating with the car, the LED indicator of corresponding protocol will light up or flash. (If the CAN protocol is detected, it will have the maximum brightness. When the communication is successful, the corresponding CAN-H and CAN-L will dim or twinkling weakly)

2. ECU connection: single module connection

GODIAG GT100, connected to a single ECU module, is convenient for a user to do the single-module diagnosis and programming.



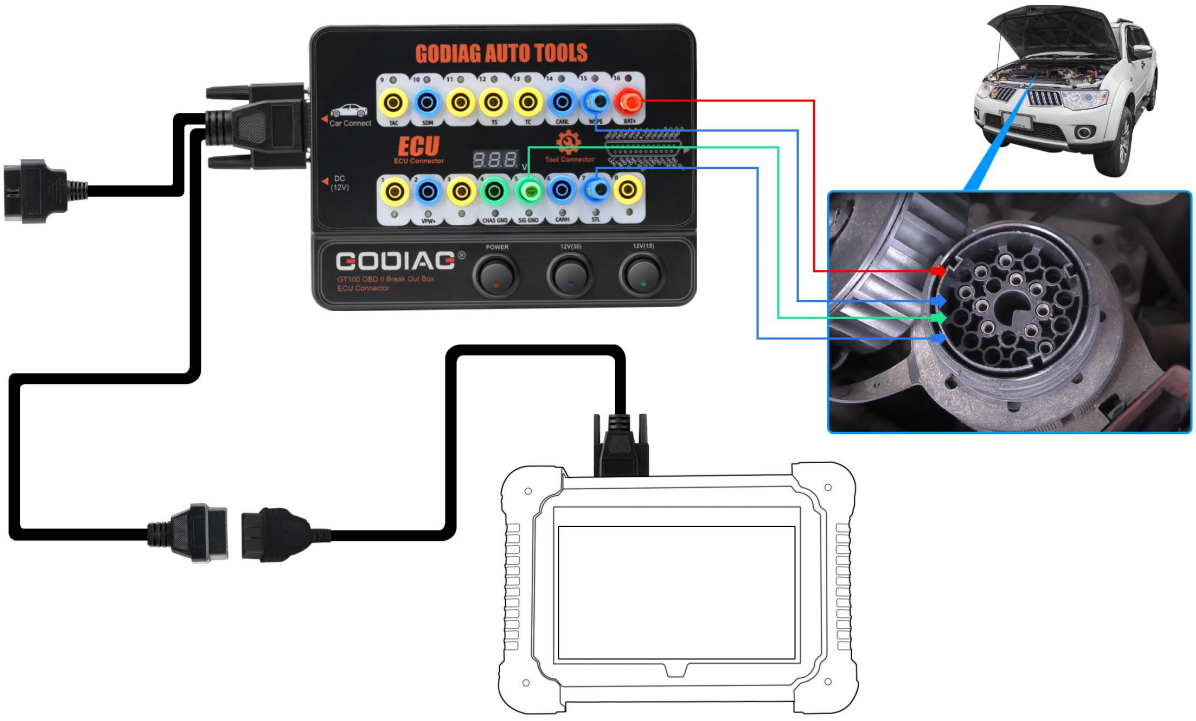
1). Connect the ECU with the color jumpers. (If the ECU is CAN protocol, please check whether you will need to connect a 120 ohm resistor.)
2). The Godiag GT100 can be powered by connecting to the OBDII diagnostic interface of car, or by an AC power adapter.
3). To diagnose and program for a single ECU by connecting the diagnostic tool or ECU programmer.

3. Banana plug extension connection: Extend the car's OBDII 16pin interface to tell you whether the OBDII interface connection is good or not, which is convenient for the test of OBDII interface voltage waveform.

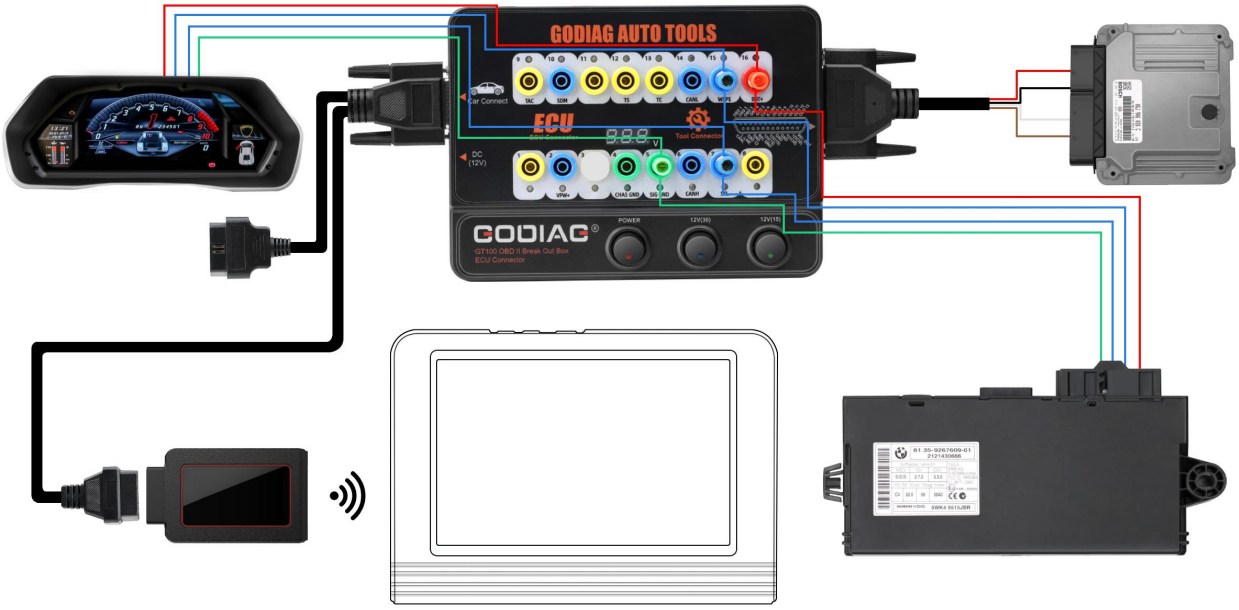


4. Convert OBD1 diagnostic interface to the standard OBD2

Use the connector to convert the OBD1 interface into obd2 interface according to the diagnostic interface communication protocol.



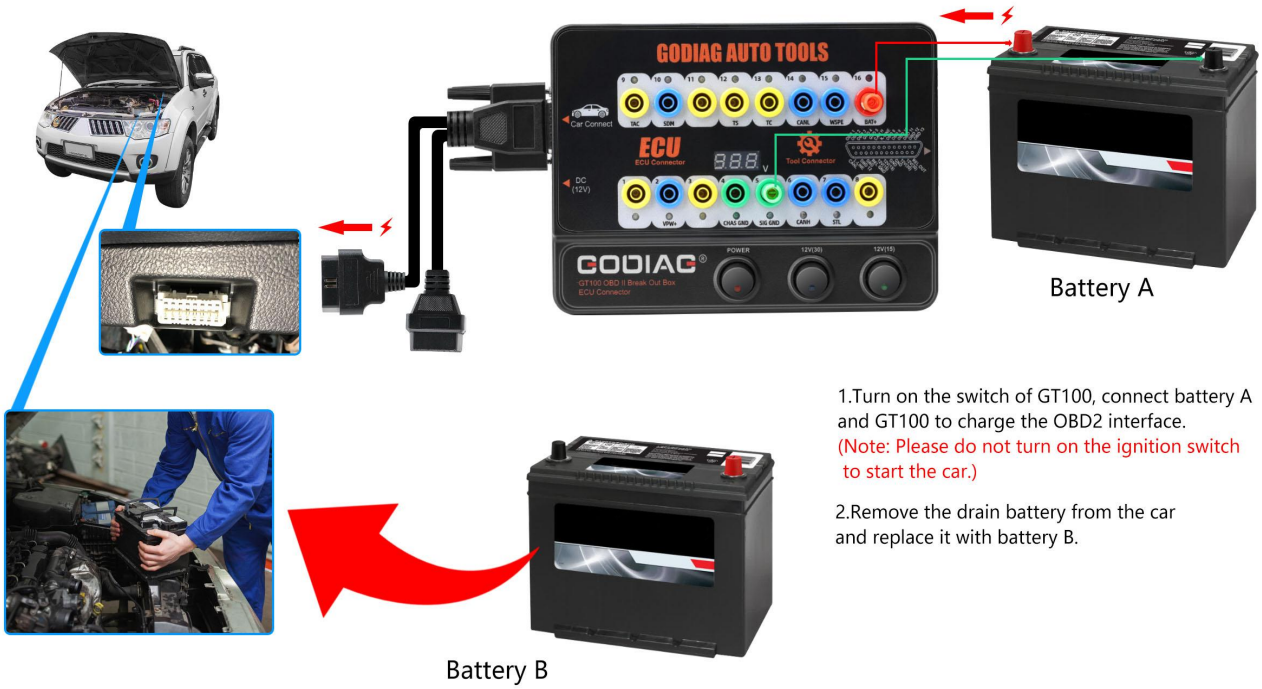
5. Connect multiple ECU control modules at the same time, which is convenient for the professional engineers to detect and maintain.



6. When to use the extension cables: The space of the diagnostic interface location is too narrow to connect to the diagnostic tool, or the user find that the diagnostic cable is not long enough during maintenance. It can be extended by 1.2 meters.



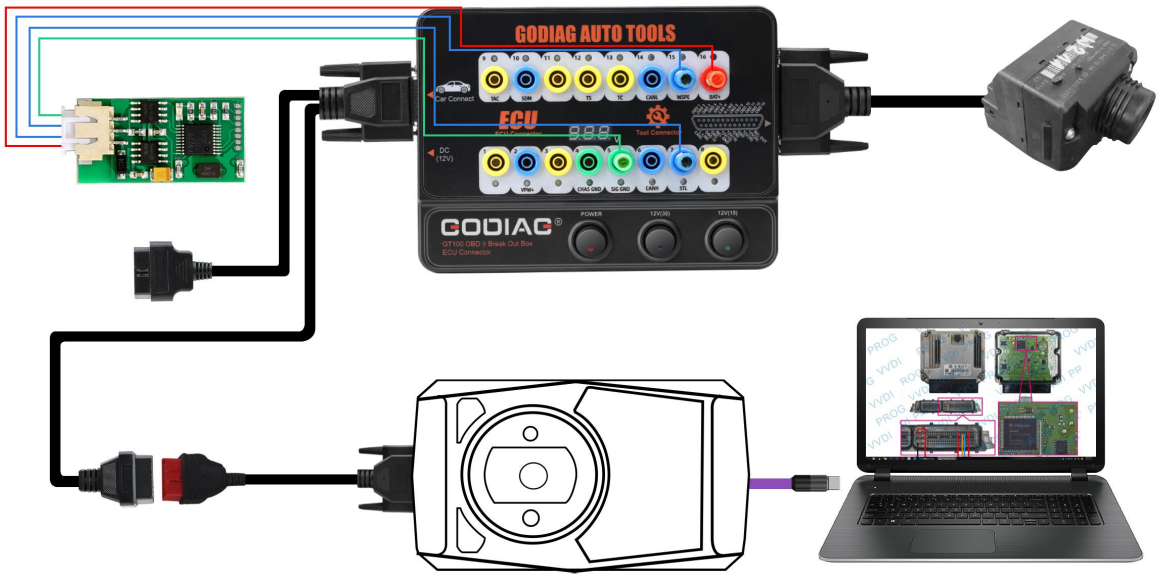
7. Able to power the car when replacing the used battery.



1). Prepare battery A to supply power by connecting to No. 16 / 4 / 5 holes of Godiag GT100 & to the OBD2 diagnostic interface of the car.
[Notice 1. Turn on the power switch of Godiag GT100. 2. Don't turn on the ignition switch, don't start the car]

2). Then replace the brand-new battery B with the used battery in the car, which will ensure that the car has fully power to prevent data loss and audio lock-up or the malfunction due to lack of power to the ECU control module.

8. The dedicated adapter will be released (help GT100 connect to the special ECU module)



Package includes:

Host: 1pc

OBD 2-in-1 extension cable: 1pc

Colored jumper cable: 1pc

Power supply 12V: 1pc

Resistance 120 ohm: 1pc

Banana plug: 6pcs

Wire accessories, Dupont 2.54mm connector female pins: 24pcs

Guarantee: One year warranty.

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